

What is claimed is:

- 1 1. A method of configuring communications over a network  
2 comprising:  
3 connecting a device to the network;  
4 receiving data on the device from the network;  
5 configuring the device for a communication mode,  
6 from a plurality of possible communication modes, wherein the  
7 communication mode includes transferring data between the  
8 device and the network simultaneously in time;  
9 transferring data between the device and the network  
10 based on the communication mode; and  
11 determining whether to retain the device in the  
12 communication mode.
- 1 2. The method of claim 1 further comprising,  
2 configuring the device for a communication mode,  
3 wherein the communication mode includes transferring data  
4 between the device and the network separately in time.
- 1 3. The method of claim 1, wherein communication mode further  
2 comprises a full-duplex mode.
- 1 4. The method of claim 1, wherein the network comprises an  
2 Ethernet network.

1 5. The method of claim 1, wherein the device comprises a  
2 medium access controller.

1 6. The method of claim 1, wherein the device comprises a  
2 switch.

1 7. The method of claim 1, wherein the device comprises a  
2 hub.

1 8. The method of claim 1, wherein the device comprises an  
2 Ethernet interface card.

1 9. The method of claim 1, wherein the device comprises a  
2 computer.

1 10. The method of claim 1, wherein the device comprises an  
2 Ethernet peripheral device.

1 11. An apparatus configured to connect to a network, the  
2 apparatus comprising:

3 a memory which stores instructions to,  
4 configure the apparatus for a communication  
5 mode, from a plurality of possible communication modes,  
6 wherein the communication mode includes transferring data  
7 between the device and the network simultaneously in time,  
8 transfer data between the apparatus and the  
9 network based on the communication mode,

10                   determine whether to retain the apparatus in  
11   the communication mode; and  
12                   a processor which executes the instructions.

1   12. The apparatus of claim 11, wherein the instructions  
2   include configuring the apparatus for a communication mode,  
3   wherein the communication mode includes transferring data  
4   between the apparatus and the network separately in time.

1   13. The apparatus of claim 11, wherein the instructions  
2   include transferring data between the apparatus and the  
3   network in a full-duplex mode.

1   14. The apparatus of claim 11, wherein the network comprises  
2   an Ethernet network.

1   15. The apparatus of claim 11, wherein the apparatus is  
2   incorporated into a medium access controller.

1   16. The apparatus of claim 11, wherein the apparatus is  
2   incorporated into a switch.

1   17. The apparatus of claim 11, wherein the apparatus is  
2   incorporated into a hub.

1   18. The apparatus of claim 11, wherein the apparatus is  
2   incorporated into an Ethernet interface card.

1 19. The apparatus of claim 11, wherein the apparatus is  
2 incorporated into a computer.

1 20. The apparatus of claim 11, wherein the apparatus is  
2 incorporated into an Ethernet peripheral device.

1 21. An article comprising a machine-readable medium that  
2 stores instructions that cause a machine to:

3 receive data from a connected network;

4 configure the machine for a communication mode, from  
5 a plurality of possible communication modes, for transferring  
6 data between the machine and the network, wherein the  
7 communication mode includes transferring data between the  
8 machine and the network simultaneously in time;

9 transfer data between the machine and the network  
10 based on the determined communication mode; and

11 determine whether to retain the machine in the  
12 communication mode.

1 22. The machine-readable medium of claim 21, wherein the  
2 instructions further cause the machine to determine a  
3 communication mode, from the plurality of possible  
4 communication modes, wherein the communication mode includes  
5 transferring data between the machine and the network  
6 separately in time.

1 23. The machine-readable medium of claim 21, wherein the  
2 instructions further cause the machine to determine a  
3 communication mode, from the plurality of possible  
4 communication modes, wherein the communication mode includes  
5 transferring data between the machine and the network in a  
6 full-duplex mode.

1 24. The machine-readable medium of claim 21 is a random  
2 access memory.

1 25. The machine-readable medium of claim 21 is a read only  
2 memory.

1 26. The machine-readable medium of claim 21 is a hard disk  
2 drive.